

ZNZ PhD Retreat 21, Clinic Valens 8 - 10 July 2021

Program (Version 6.7.21)

Thursday, 8 July

14:00-16:00	Check-in at Hotel Schloss Ragaz
16:30	Extra bus in front of Tamina Therme* to Clinic Valens
17:00 – 19:00	Short Talks on PhD Research Projects, Part I , short break/drinks at 18:00, 7 talks
19:00 – 19:45	Endless Work: How Stem Cells Shape Structure and Function of the Brain throughout Life Plenary Talk by Prof. Sebastian Jessberger, Brain Research Institute, UZH
20:00	Dinner (Hotelhalle)
22:30	Buses leaving Clinic Valens to Tamina Therme/Hotel Schloss Ragaz

Friday, 9 July

08:30	Extra bus in front of Tamina Therme to Clinic Valens
09:00 – 12:00	Short Talks on PhD Research Projects, Part II , coffee break at 10:15, 10 talks
12:00 – 13:00	Patient Presentations by Dr. Roman Gonzenbach, Clinic Valens
13:00 – 14:15	Lunch Buffet (Restaurant Quellweg)
14:15 – 15:00	Guided Tour through the Neurorehabilitation Clinic
15:00 – 15:45	Gene Therapy for Retinal Diseases Plenary Talk by Prof. Hendrik Scholl, Department of Ophthalmology, University of Basel
15:45 – 18:00	Poster Session (Hotelhalle), coffee at 16:00, 26 posters
18:00	Buses leaving Clinic Valens to Tamina Therme
19:30	Buses leaving for dinner at “Altes Bad Pfäfers” from Tamina Therme

Saturday, 10 July

	Checkout at Hotel Schloss Ragaz after breakfast
08:30	Extra buses in front of Tamina Therme to Clinic Valens
09:00 – 12:00	Short Talks on PhD Research Projects, Part III , coffee at 10:30, 10 talks
12:00 – 12:30	Feedback on the ZNZ PhD Program in Neuroscience
12:30 – 13:15	Mental Dice – The Neuropsychology of Chance and Randomness Plenary Talk by Prof. Peter Brugger, Clinic Valens
13:15	Lunch box (Zinn Saal)
13:58	Public bus to Bad Ragaz

*Tamina Therme is a few walking minutes away from Hotel Schloss Ragaz

Short Talks on Ph.D. Research Projects:

(10 minutes talk and five minutes discussion)

Part I, Thursday, 17:00 – 19:00

1. Raphaela Ardicoglu, Institute for Neuroscience, ETH

[Functional analysis of the stress-responsive vascular gene Apold1](#)

2. Reto Cola, Institute of Pharmacology and Toxicology, UZH

[Development and validation of a genetically encoded PACAP sensor](#)

3. Darren Kelly, Institute for Neuroscience, ETH

[An Investigation of circRNA function in mammalian synapse development and plasticity](#)

4. Margaux Quiniou, Brain Research Institute, UZH

[Establishing live sensors of cellular age for the study of aging in single cells](#)

5. Monica Iachizzi, Institute of Veterinary Pharmacology and Toxicology, UZH

[Evaluation of the impact of gut microbiota on epigenetic programming of specific CNS cell populations and behavioral functions](#)

6. Jose Angel Pineda, Brain Research Institute, UZH

[Insights of brain connectivity circuits through image generation](#)

7. Maria Karatsoli, Brain Research Institute, UZH

[Diversity and cortical distribution of human and mouse Cajal Retzius Neurons](#)

Part II, Friday, 9:00 – 12:00

8. Hui Zhang, Institute of Neuropathology, USZ

[Oposonin conjugated LCP as therapeutic reagents for neurodegenerative diseases](#)

9. Waleed ElGrawani, Institute of Pharmacology and Toxicology, UZH

[Local sleep: How do cells decide?](#)

10. Newsha Ghasemi Nejad, Institute for Neuroinformatics, UZH/ETH

[Behavioral and electrophysiological effects of task-irrelevant changes in the somatosensory cortex](#)

11. Manuel Carro Dominguez, Neural Control of Movement Lab, ETH

[The role of the Locus Coeruleus in sleep, cognitive task performance and autonomic functions](#)

12. Stephanie Huwiler, Neural Control of Movement Lab, ETH

[Causal role of sleep slow waves in cardiovascular and metabolic health](#)

13. Wolfgang Ganglberger, Institute of Pharmacology and Toxicology, UZH

[Sleep, health and aging: Learning from healthy and critically ill human sleep data](#)

14. Matteo Panzeri, Brain Research Institute, UZH

[Investigating mesoscale changes in activity following large sensorimotor strokes](#)

15. Morgan Roberts, Vascular Neurology and Rehabilitation, UZH

[Characterising plasticity mechanisms in the post-stroke motor cortex](#)

16. Tiang Yuyang, Vascular Neurology and Rehabilitation, UZH

[The role of dopamine in post-stroke recovery](#)

17. Hui Ji, Center for MR-Research, University Children's Hospital Zurich

[Characterisation of brain morphology, perfusion and white matter microstructure in congenital disorders using fetalMRI](#)

Part III, Saturday, 9:00 – 12:00

18. Giada Devittori, Rehabilitation Engineering Lab, ETH
[Clinical feasibility and evaluation of minimally-supervised robot-assisted therapy](#)
19. Nick Sidorenko, Department of Economics, UZH
[Investigating the neural basis of reward-guided behavior flexibility](#)
20. Caroline Heimhofer, D-HEST, ETH
[Central mechanisms of motor fatigability](#)
21. Rui Graca, Institute for Neuroinformatics, UZH/ETH
[Scientific dynamic vision sensor](#)
22. Maria Cervera, Institute for Neuroinformatics, UZH/ETH
[Lifelong learning and network architecture in biologically-inspired neural networks](#)
23. Simon Schug, Institute for Neuroinformatics, UZH/ETH
[Lifelong learning to learn in neural networks](#)
24. Pengfei Sun, Institute for Neuroinformatics, UZH/ETH
[Event-based neural network](#)
25. Georgia Dellaferrera, Institute for Neuroinformatics, UZH/ETH
[Biologically inspired learning in deep neural networks](#)
26. Xi Chen, Institute for Neuroinformatics, UZH/ETH
[Recurrent neural network accelerator for energy-efficient training on the edge](#)
27. Yingqiang Gao, Institute for Neuroinformatics, UZH/ETH
[Inference for scientific documents](#)

Posters, Friday, 15:45-18:00

Even poster numbers: presenters are at poster 15:45 – 16:45

Odd poster numbers: presenters are at poster 16:45 – 17:45

Format: A0 Portrait, i.e. height x width: 1189 x 841 mm. Pins/tape will be available.

P01 Linbi Cai, Brain Research Institute, UZH

[Propagation and integration of sensory-stimulus evoked olfactory and somatosensory responses in the developing mouse brain](#)

P02 Alex Rosi-Anderson, Institute of Pharmacology and Toxicology, UZH

[The omics of memory: pathways of fear memory consolidation within activity tagged neuronal ensembles](#)

P03 Maha Wybitul, Institute for Regenerative Medicine, UZH

[Early prognostic spatio-temporal neuroimaging factors of Alzheimer's Disease in non-demented elderly project description](#)

P04 Huimin Shan, Institute for Regenerative Medicine, UZH

[Nogo-A inhibition combined with neurorehabilitation - A novel regenerative therapy for traumatic brain injury](#)

P05 Fabian Gonzales Pinto, Decision Neuroscience Lab, ETH

[A low cost and integral biomarker for individuals at risk of developing Alzheimer's disease](#)

P06 Inès Antunes Dos Santos Dias, D-HEST, ETH

[Closed-loop auditory stimulation of slow-wave sleep: exploring CLAS as a tool to modulate protein handling and neural circuitry properties in animal models of neurodegeneration](#)

P07 Gabriele Wögenstein, Neuropediatrics, University Children's Hospital Zurich

[Enveloped vectors as new gene therapeutic tool](#)

P08 Stephanie Chie, Department of Neonatology, USZ

[Sialic acid and human neurodevelopment: a molecular and cellular approach](#)

P09 Melanie Furrer, Child Development Center, USZ

[The interaction between sleep homeostasis and circadian rhythms: a translational approach](#)

P10 Niklas Schneider, Dep of Neurology, USZ

tbd

P11 Iara De Schoenmaker, University Hospital Balgrist

[Pain - From Phenotypes to Mechanisms](#)

P12 Iurii Savvateev, Decision Neuroscience Lab, ETH

[Temporal Interference stimulation of prefrontal cortex for the modulation of effort-based decision-making](#)

P13 Jeroen Brus, Decision Neuroscience Lab, ETH

[Computational and causal role of resource limitations in decision-making](#)

P14 Nathalie Rieser, Psychiatric University Hospital

[Clinical and mechanistic effects of psilocybin in alcohol use addicted patients](#)

P15 Nada Frei, University Clinic for Child and Adolescent Psychiatry, UZH

[Regulation and training of the visual word form area function to support reading performance](#)

P16 Christina Lutz, University Clinic for Child and Adolescent Psychiatry, UZH

[AllRead – EEG and fMRI measures of a learning-app based training in children with poor reading skills](#)

P17 Marionna Münger, Department of Psychology, UZH

[Longitudinal alterations of the symptomatic burden, executive functions, and neurophysiology in ADHD](#)

P18 Ingrid Odermatt, Neural Control of Movement Lab, ETH

[Biological basis of neural changes evoked by TMS based motor imagery neurofeedback](#)

P19 Silvan Büeler, Department of Neuro-Urology, Balgrist University Hospital

[Lumbosacral spinal cord imaging in neurogenic lower urinary tract dysfunction](#)

P20 Sara Uldry Julio, Balgrist University Hospital

[Physiology and pathophysiology of pain related evoked potentials](#)

P21 Jeannette Popovova, Clinic for Neuroradiology, USZ

[Investigating attention and visual brain processing through neurofeedback intervention](#)

P22 Charlotte Werner, Balgrist University Hospital

[Assessing movement quality of patients with a neurological disorder using wearable inertial sensors](#)

P23 Marius Tröndle, Department of Psychology, UZH

[Decomposing oscillatory power in resting state and task-related activity over the lifespan](#)

P24 Zhe Su, Institute for Neuroinformatics, UZH/ETH

[Asynchronous network-on-chip for neuromorphic hardware](#)

P25 Chenxi Wu, Institute for Neuroinformatics, UZH/ETH

[Attractor dynamics on mixed-signal neuromorphic hardware](#)

P26 Nianlong Gu, Institute for Neuroinformatics, UZH/ETH

[Paper retrieval and discussion generation for scientific inference](#)